

## STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0122505; AI 43876; PER20040001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality  
Office of Environmental Services  
P. O. Box 4313  
Baton Rouge, Louisiana 70821-4313

- I.     **THE APPLICANT IS:**   Ascension Wastewater Treatment, Inc.  
                                      Seven Oaks Subdivision (Flea Market)  
                                      17188 Airline Hwy., Suite M-157  
                                      Prairieville, LA 70769
  
- II.    **PREPARED BY:**       Ronda Burtch
  
- DATE PREPARED:**    December 21, 2007
  
- III.   **PERMIT ACTION:**    reissue LPDES permit LA0122505, AI 43876; PER20040001

Previous LPDES Permit Number: LAG560085  
LPDES permit issued: February 4, 1998  
LPDES permit expired: August 27, 2002

LPDES application received: January 9, 2004  
Revised LPDES application received: September 27, 2007

**Please note that upon issuance of LPDES permit LA0122505, the current LPDES permit LAG560085 will be terminated.**

There are two Seven Oaks Subdivisions; therefore, this subdivision is identified as Seven Oaks (Flea Market) because it is located near the flea market off Airline Highway in Prairieville.

A draft permit for this facility was solicited for public comment on March 23, 2007. A public hearing was held for this draft permit on June 21, 2007. However, a revised application was submitted, requiring a new draft permit to be issued and solicited for public comment. The facility previously had two side-by-side 50,000 GPD treatment plants with two outfalls. Ascension Wastewater Treatment has added two internal outfalls and has combined the two outfalls into one common outfall.

#### IV.    **FACILITY INFORMATION:**

- A.     The application is for the discharge of treated sanitary wastewater from a privately owned treatment works serving the Seven Oaks Subdivision.
  
- B.     The permit application does not indicate the receipt of industrial wastewater.
  
- C.     The facility is located off Airline Hwy., adjacent to and east of the flea market in Prairieville, Ascension Parish.
  
- D.     The treatment facility consists of an extended air sewage treatment plant. Disinfection is by chlorination.

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- E. This facility has two 50,000 GPD side-by-side sewage treatment plants with two internal outfalls and one common outfall)

Outfall 101 (Internal Outfall of 001 – located closer to Airline Hwy.)

Discharge Location: Latitude 30° 17' 28" North  
 Longitude 90° 57' 49" West

Description: treated sanitary wastewater

Expected Flow: 125 homes x 400 gallons/day/home = 0.050 MGD

Outfall 102 (Internal Outfall of 001 – located closer to the railroad tracks)

Description: treated sanitary wastewater

Expected Flow: 125 homes x 400 gallons/day/home = 0.050 MGD

Outfall 001

Discharge Location: Latitude 30° 17' 28" North  
 Longitude 90° 57' 49" West

Description: treated sanitary wastewater

Total Expected Flow: 250 homes x 400 gallons/day/home = 0.10 MGD

Calculations for gallons per day were based upon figures obtained from Chapter 15 of the State of Louisiana Sanitary Code, Department of Health and Hospitals, Office of Public Health.

Type of Flow Measurement which the facility is currently using:

**Bucket and Stop Watch (A condition of the permit is that the flow from the facility be measured continuously. Therefore, a continuous recorder will be required for each internal outfall at this facility.)**

**Please note that if the facility grows to a discharge beyond the design capacity of the facility, additional sewage treatment may be required with prior approval of the facility's plans by the Louisiana Department of Health and Hospitals and notification must be submitted to the LDEQ. Also, if the expected flow reaches or exceeds the design capacity of the facility, a permit modification may be required.**

**V. RECEIVING WATERS:**

The discharge is into a parish drainage ditch, thence into a highway ditch, thence into Black Bayou, thence into Bayou Vicknair, thence into the New River in segment 040404 of the Lake Pontchartrain Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 040404 of the Lake Pontchartrain Basin are as indicated in the table below<sup>1/</sup>:

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Overall Degree of Support for Segment 040404	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Not Supported	Not Supported	Not Supported	Not Supported	N/A	N/A	N/A	N/A

<sup>3/</sup>The designated uses and degree of support for Segment 040404 of the Lake Pontchartrain Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

#### VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 040404 of the Lake Pontchartrain Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated October 24, 2007 from Boggs (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

#### VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

#### VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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For additional information, contact:

Ms. Ronda Burtch  
Permits Division  
Department of Environmental Quality  
Office of Environmental Services  
P. O. Box 4313  
Baton Rouge, Louisiana 70821-4313

#### **IX. PROPOSED PERMIT LIMITS:**

Subsegment 040404, New River - Headwaters to New River Canal, is listed on LDEQ's Final 2004 303(d) List as impaired for non-native aquatic plants, organic enrichment/low DO, and pathogen indicators. To date no TMDLs have been completed for this waterbody. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL. until completion of TMDLs for the Lake Pontchartrain Basin, those suspected causes of impairment which would be attributed to the sanitary wastewater point source category have been eliminated in the formulation of effluent limitations and other requirements of this permit. Additionally, suspected causes of impairment which could be attributed to pollutants which were not determined to be discharged at a level which would cause, have the reasonable potential to cause or contribute to an excursion above any present state water quality standard were also eliminated.

##### **Organic Enrichment/Low DO**

To protect against the potential for oxygen consuming pollutants that could cause instream DO problems and for the discharges of organic materials at levels exceeding state water quality standards, CBOD<sub>5</sub> limitations have been established in the permit.

##### **Pathogen Indicators**

To protect the receiving waterbody against high levels of pathogenic organisms, fecal coliform limitations have been established in the permit.

##### **Non-Native Aquatic Plants**

The non-native aquatic plant impairment for this subsegment is due to unknown sources. Therefore, the Department does not believe that the discharge from this facility will cause or contribute to the non-native aquatic plant impairment.

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### Interim Effluent Limits:

#### OUTFALL 101

Interim effluent limits are being given to allow the facility time to install a continuous recorder, meet more stringent limitations, and to meet ammonia and mass limitations for the first time.

Interim effluent limits shall become effective on the effective date of the permit and expire one (1) year from the effective date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
BOD <sub>5</sub>	---	20 mg/l	30 mg/l	Limits are set in accordance with the previous LPDES permit LAG560085.
TSS	---	20 mg/l	30 mg/l	Limits are set in accordance with the previous LPDES permit LAG560085.

### Interim Effluent Limits:

#### OUTFALL 102

Interim effluent limits are being given to allow the facility time to install a continuous recorder, meet more stringent limitations, and to meet ammonia and mass limitations for the first time.

Interim effluent limits shall become effective on the effective date of the permit and expire one (1) year from the effective date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
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### Final Effluent Limits:

#### OUTFALL 001

Final limits are based on the combined flow from Outfalls 101 and 102 with a total expected flow of 0.10 MGD. Final limits shall become effective one (1) year from the effective date of the permit and expire on the expiration date of the permit.

#### 1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

#### 2) pH

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time. (Limits as established through BPJ considering BCT for similar waste streams in accordance with LAC 33:IX.5905.C.).

#### 3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

### Final Effluent Limits:

#### OUTFALL 101

Final limits shall become effective one (1) year from the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD <sub>5</sub>	4	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size.
TSS	6	15 mg/l	23 mg/l	TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen	2	5 mg/l	10 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size.

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### Final Effluent Limits:

#### OUTFALL 102

Final limits shall become effective one (1) year from the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD <sub>5</sub>	4	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSEL) for facilities of this treatment type and size.
TSS	6	15 mg/l	23 mg/l	TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen	2	5 mg/l	10 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSEL) for facilities of this treatment type and size.

#### X. PREVIOUS PERMITS:

LPDES Permit No. LAG560085: Issued: February 4, 1998  
 Expired: August 27, 2002

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	1/month	Measure
BOD <sub>5</sub>	20 mg/l	30 mg/l	1/month	Grab
TSS	20 mg/l	30 mg/l	1/month	Grab
Fecal Coliform Colonies	200	400	1/month	Grab

#### XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

##### A) **Inspections**

A review of the files indicates that there are no recent inspections on file for this facility.

##### B) **Compliance and/or Administrative Orders**

A review of the files indicates that there are no recent enforcement actions administered against this facility.

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### C) DMR Review

A review of the discharge monitoring reports for the period beginning July 1, 2005 through June 30, 2007 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
April 2006	TSS, Weekly Avg.	32 mg/l	30 mg/l
May 2006	BOD <sub>5</sub> , Weekly Avg.	51.1 mg/l	30 mg/l
	TSS, Monthly Avg.	20.4 mg/l	20 mg/l
	TSS, Weekly Avg.	56 mg/l	30 mg/l
July 2006	NO DMR ON FILE	NO DMR ON FILE	NO DMR ON FILE
August 2006	NO DMR ON FILE	NO DMR ON FILE	NO DMR ON FILE
September 2006	NO DMR ON FILE	NO DMR ON FILE	NO DMR ON FILE
October 2006	TSS, Monthly Avg.	22.6 mg/l	20 mg/l
	TSS, Weekly Avg.	71.4 mg/l	30 mg/l
	Fecal Coliform, Monthly Avg.	645 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	>2,000 col/100 ml	400 col/100 ml
November 2006	NO DMR ON FILE	NO DMR ON FILE	NO DMR ON FILE
December 2006	BOD <sub>5</sub> , Weekly Avg.	30.1 mg/l	30 mg/l
	Fecal Coliform, Monthly Avg.	408 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	>2,000 col/100 ml	400 col/100 ml
February 2007	BOD <sub>5</sub> , Weekly Avg.	47.8 mg/l	30 mg/l
April 2007	BOD <sub>5</sub> , Weekly Avg.	37 mg/l	30 mg/l
May 2007	TSS, Weekly Avg.	36 mg/l	30 mg/l

### XII. ADDITIONAL INFORMATION:

Please be aware that the Department will be conducting a TMDL in the Lake Pontchartrain Basin scheduled for completion in 2011. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions as a result of the TMDL. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.10 MGD.

Effluent loadings are calculated using the following example:

$$\text{CBOD: } 8.34 \text{ lb/gal} \times 0.05 \text{ MGD} \times 10 \text{ mg/l} = 4 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

#### Effluent Characteristics

Flow  
 CBOD<sub>5</sub>  
 Total Suspended Solids  
 Ammonia-Nitrogen  
 Fecal Coliform Bacteria  
 pH

#### Monitoring Requirements

<u>Measurement Frequency</u>	<u>Sample Type</u>
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Continuous	Recorder
2/month	Grab
2/month	Grab
2/month	Grab
2/month	Grab
2/month	Grab



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The permittee shall efficiently operate and maintain the existing treatment facility so as to discharge effluent which does not exceed the INTERIM EFFLUENT LIMITATIONS and MONITORING REQUIREMENTS.

The permittee shall achieve compliance with the FINAL EFFLUENT LIMITATIONS and MONITORING REQUIREMENTS as specified in accordance with the following schedule:

ACTIVITY	DATE
Achieve Interim 1 Effluent Limitations and Monitoring Requirements	Effective date of permit
Achieve Final Effluent Limitations and Monitoring Requirements	One (1) year from the effective date of the permit

The above listed activities must be achieved on or before the deadline date. Additionally, the permittee shall submit a progress report outlining the status of all facility improvements on a yearly basis until compliance is achieved.

Within 14 days of completion of the new facility or facility upgrade and/or expansion, the Permittee shall notify the Department of Environmental Quality, Office of Environmental Services in writing that construction has been completed.

The Permittee shall achieve sustained compliance with Final Effluent Limitations.

Where the percent project completion reported is less than would be required to assure completion of necessary upgrades by the required date, the report of progress shall also include an explanation for this delay and proposed remedial actions.

No later than 14 days following a date for a specific action (as opposed to a report of progress), the permittee shall submit a written notice of compliance or noncompliance.

#### XIV REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Ascension Wastewater Treatment, Inc., Seven Oaks - Flea Market, January 9, 2004 and September 27, 2007.